

Claims.

1. Portable power grinder comprising a housing (10), a rotating output shaft (14) with a grinding wheel mounting device (15), a grinding wheel safety guard (18) supported on the housing and adjustable between a number of pre-selected angular positions defined by a row of apertures (21) in the safety guard (18), and a manually operable arresting device (24,38) for locking the safety guard (18) in anyone of said pre-selected positions by engaging either one of said apertures (21),

characterized in that the arresting device (24,38) comprises

- a lock slide (24) movably supported on the housing (10),
- an articulated lever (30) connected at its one end to said lock slide (24) and at its opposite end to the housing (10) and arranged to move by folding and unfolding, respectively, said lock slide (24) between a safety guard releasing position and a safety guard arresting position,
- said lever (30) is arranged to be shifted between its unfolded position and its folded position via an over-centre movement, and to positively arrest said lock slide (24) in said safety guard (18) arresting position by supporting in its unfolded position said lock slide (24) relative to the housing (10), and
- a spring means (31) is arranged to retain said lever (30) firmly against the housing (10) in said unfolded position.

2. Power grinder according to claim 1, wherein said lock slide (24) comprises

- a lock spindle (38) protruding in the movement direction of said lock slide (24) for selectively engaging anyone of said apertures (21) in the safety guard (18), and

• a contact portion (25) for abutting against a contact surface (19) of the safety guard (18), said spring means (31) is arranged to act substantially in the longitudinal direction of said lever (30) in said unfolded position state, thereby exerting an biassing force on said lock slide (24) for obtaining a contact pressure between said contact portion (25) and said contact surface (19) of the safety guard (18) and for maintaining said lock spindle (38) in its engagement with one of said apertures (21).

3. Power grinder according to claim 1 or 2, wherein the output shaft (14) is provided with at least one indentation (39), and said lock spindle (38) is displaceably guided on said lock slide (24) for movement between a first position where it engages said apertures (21) in said safety guard (18) only, and a second extended position where it also engages said at least one indentation (39) on said output shaft (14) to thereby lock said output shaft (14) against rotation at change of grinding tool, wherein a bias spring (38a) is arranged to bias said lock spindle (38) toward said first position, and said lock spindle (38) is provided with a head (40) for manual shifting of said lock spindle (38) from said first position to said second extended position.

4. Power grinder according to anyone of claims 1-3, wherein said spring means (31) is a leaf spring forming one half of said articulated lever (30).

5. Power grinder according to anyone of claims 2-4, wherein said contact portion (25) comprises at least one stud element (27,28) arranged to engage at least one of said apertures (21) in the safety guard (18) arresting position of said lock slide (24).